

### More Distance, Louder and Clearer Audio – Reliable Radio Communication Tool



- 7 W output power plus new antenna provides 1.5 times<sup>\*1</sup> more communication distance
- 1500 mW powerful audio and 1.5 times<sup>\*2</sup> higher sound pressure
- Dust-protection, water resistance and a tough body (IP54 and MIL-STD 810G)
- 19 hours<sup>\*3</sup> of long lasting battery life
- 200 channels with 5-character alphanumeric display
- Automatic DTMF transmission linked to PTT (on pressing PTT (Log-in) / on releasing PTT (Log-off))
- Durable BNC type antenna connector

#### And More

- The rotary knob on the top panel is assignable either to volume control or channel selector
- Supplied BC-240, battery charger with a charging control function that prolongs the life of the battery
- Integrated VOX function
- Built-in CTCSS and DTCSS encoder/decoder
- Priority, memory, skip and tone scanning

<sup>\*1</sup> Wide open space. Approximate, comparing the IC-G86 with the IC-G80. Communication range may differ depending on operating environment or weather conditions, etc.

<sup>\*2</sup> Approximate, comparing the IC-G86 with the IC-G80.

<sup>\*3</sup> At EX Hi Power mode. TX : RX : standby = 5 : 5 : 90 (The Power Save function is on.)

Made  
in  
JAPAN



1500 mW  
powerful audio

## SPECIFICATIONS

GENERAL	
Frequency range (TX/RX guaranteed range)	136–174 MHz (EX Hi power TX : 144–160 MHz)
Type of emissions	F2D, F3E (FM, FM-N)
Number of channels	200 channels
Antenna impedance	50 Ω
Power supply requirement	7.5 V DC
Operating temperature range	–20°C to +60°C, –4°F to +140°F
Frequency stability	±2.5 ppm (–20°C to +60°C, –4°F to +140°F)
Current drain	
TX (EX Hi/Mid/Low)	1.6/1.4/1.0/0.5 A typical
RX (Max. audio)	450 mA typ. (INT SP), 200 mA typ. (EXT SP)
Dimensions (W×H×D) (Projections not included)	58.6 × 112 × 30.5 mm, 2.3 × 4.4 × 1.2 in (with BP-298)
Weight (Approximate)	300 g, 10.6 oz (with BP-298, FA-B57V)
TRANSMITTER	
Output power	7.0/5.5/2.5/0.5 W (EX Hi/Hi/Mid/Low)
Maximum frequency deviation	±5.0 kHz/±2.5 kHz (Wide/Narrow)
Spurious emissions	–80 dB typical
External microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2 kΩ
RECEIVER	
Sensitivity	–124 dBm typical
Squelch sensitivity	–126 dBm typical
Selectivity (Wide/Narrow)	75 dB typical/70 dB typical
Intermodulation	65 dB typical
Audio output power	
Internal speaker	1500 mW typical (with 8 Ω load)
External speaker	550 mW typical (with 8 Ω load)
External speaker connector	3-conductor 3.5 (d) mm (1/8")/ 8 Ω

All stated specifications are subject to change without notice or obligation.

## Applicable U.S. Military Specifications &amp; IP Rating

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	–
Dust Blowing	510.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

## Ingress Protection Standard

Dust and Water	IP54 (Dust-protection, water resistance)
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## Supplied accessories :

- BP-298, battery pack
- BC-240, desktop charger
- BC-242, AC adapter
- MB-124, belt clip
- FA-B57V, antenna

## Countermeasures against Counterfeit Products

The "3D GENUINE Icom label" and "QR Code Genuineness Determination System" are attached for proof of authentication. Check the Icom website for details : <http://www.icom.co.jp/world/genuine-info/>



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## OPTIONS

## BATTERY PACKS &amp; CASE



Battery pack type	Capacity	Operating time*
BP-298 Rechargeable Li-ion	2100 mAh (min.) 2250 mAh (typ.)	Up to 19 hours
BP-299 Rechargeable Li-ion	3050 mAh (min.) 3150 mAh (typ.)	Up to 27 hours
BP-264 Rechargeable Ni-MH	1400 mAh	Up to 12.5 hours
BP-263 AA (LR6) batteries × 6	—	—

\* At EX Hi Power mode. TX : RX : standby = 5 : 5 : 90 (The Power Save function is on.)

## RAPID CHARGERS

BC-240 Rapid charger for BP-298/BP-299  
BC-191 Rapid charger for BP-264



## DESKTOP CHARGER

BC-192 Regular charger for BP-264



## MULTI-CHARGER

BC-214N\* For BP-298/BP-299



## MULTI-CHARGER

BC-197\* For BP-264



\*The AD-139/AD-120 charger adapters are supplied with the BC-214N/BC-197, depending on the charger version.

## SPEAKER-MICROPHONES



## EARPHONE-MICROPHONES



## HEADSETS

HS-94LWP\*<sup>1</sup> Ear-hook type with a waterproof connector  
HS-95LWP\*<sup>1</sup> Behind-the-head type with a waterproof connector  
HS-97\*<sup>2</sup> Throat type



## PTT SWITCH CABLE &amp; PLUG ADAPTER CABLE

VS-4LA For manual PTT operation  
OPC-2004LA For VOX operation



\*<sup>1</sup> HS-94 and HS-95 also can be used with either VS-4LA or OPC-2004LA.  
\*<sup>2</sup> Either the VS-4LA or OPC-2004LA is required when using the HS-97.

## CHARGER BRACKET



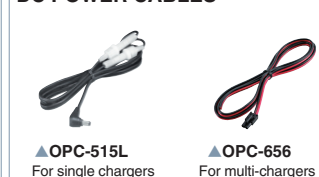
For single chargers

## CIGARETTE LIGHTER CABLE



For single chargers

## DC POWER CABLES



For single chargers

For multi-chargers

## ANTENNAS

FA-B45V 144–148 MHz  
FA-B57V 160 MHz

## BELT CLIP

MB-124

## PROGRAMMING SOFTWARE &amp; CABLES

CS-G86 Programming software  
OPC-478UC Handheld to PC USB cable  
OPC-474 Handheld to handheld